

Emily Fischer

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/195430/publications.pdf>

Version: 2024-02-01

100
papers

3,998
citations

109137

35
h-index

143772

57
g-index

119
all docs

119
docs citations

119
times ranked

4214
citing authors

#	ARTICLE	IF	CITATIONS
1	Atmospheric peroxyacetyl nitrate (PAN): a global budget and source attribution. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 2679-2698.	1.9	259
2	Future Fire Impacts on Smoke Concentrations, Visibility, and Health in the Contiguous United States. <i>GeoHealth</i> , 2018, 2, 229-247.	1.9	176
3	Contribution of Wildland-Fire Smoke to US PM _{2.5} and Its Influence on Recent Trends. <i>Environmental Science & Technology</i> , 2019, 53, 1797-1804.	4.6	139
4	Unexpected slowdown of US pollutant emission reduction in the past decade. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5099-5104.	3.3	137
5	A major regional air pollution event in the northeastern United States caused by extensive forest fires in Quebec, Canada. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	117
6	Comparison of wildfire smoke estimation methods and associations with cardiopulmonary-related hospital admissions. <i>GeoHealth</i> , 2017, 1, 122-136.	1.9	113
7	Impact of Wildfire Smoke on Adverse Pregnancy Outcomes in Colorado, 2007-2015. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 3720.	1.2	112
8	Quantification of organic aerosol and brown carbon evolution in fresh wildfire plumes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 29469-29477.	3.3	100
9	Investigating the links between ozone and organic aerosol chemistry in a biomass burning plume from a prescribed fire in California chaparral. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 6667-6688.	1.9	96
10	Inorganic chlorine and bromine in coastal New England air during summer. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	93
11	The role of the ocean in the global atmospheric budget of acetone. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	90
12	The effect of pollution on crime: Evidence from data on particulate matter and ozone. <i>Journal of Environmental Economics and Management</i> , 2019, 98, 102267.	2.1	88
13	Influence of oil and gas emissions on summertime ozone in the Colorado Northern Front Range. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 8712-8729.	1.2	86
14	Evaluating ethane and methane emissions associated with the development of oil and natural gas extraction in North America. <i>Environmental Research Letters</i> , 2016, 11, 044010.	2.2	82
15	Source characterization of volatile organic compounds in the Colorado Northern Front Range Metropolitan Area during spring and summer 2015. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 3595-3613.	1.2	81
16	Promoting professional identity, motivation, and persistence: Benefits of an informal mentoring program for female undergraduate students. <i>PLoS ONE</i> , 2017, 12, e0187531.	1.1	79
17	Spatial and temporal estimates of population exposure to wildfire smoke during the Washington state 2012 wildfire season using blended model, satellite, and in situ data. <i>GeoHealth</i> , 2017, 1, 106-121.	1.9	77
18	Connecting smoke plumes to sources using Hazard Mapping System (HMS) smoke and fire location data over North America. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 1745-1761.	1.9	77

#	ARTICLE	IF	CITATIONS
19	Smoke in the City: How Often and Where Does Smoke Impact Summertime Ozone in the United States?. Environmental Science & Technology, 2016, 50, 1288-1294.	4.6	71
20	Hazardous Air Pollutants in Fresh and Aged Western US Wildfire Smoke and Implications for Long-Term Exposure. Environmental Science & Technology, 2020, 54, 11838-11847.	4.6	69
21	Latitudinal variation in the multiphase chemical processing of inorganic halogens and related species over the eastern North and South Atlantic Oceans. Atmospheric Chemistry and Physics, 2009, 9, 7361-7385.	1.9	68
22	Free tropospheric peroxyacetyl nitrate (PAN) and ozone at Mount Bachelor: potential causes of variability and timescale for trend detection. Atmospheric Chemistry and Physics, 2011, 11, 5641-5654.	1.9	64
23	Study of chemical composition of precipitation at an alpine site and a rural site in the Urumqi River Valley, Eastern Tien Shan, China. Atmospheric Environment, 2008, 42, 8934-8942.	1.9	62
24	A decade of dust: Asian dust and springtime aerosol load in the U.S. Pacific Northwest. Geophysical Research Letters, 2009, 36, .	1.5	58
25	Ammonia sources, transport, transformation, and deposition in coastal New England during summer. Journal of Geophysical Research, 2007, 112, .	3.3	56
26	Estimated Mortality and Morbidity Attributable to Smoke Plumes in the United States: Not Just a Western US Problem. GeoHealth, 2021, 5, e2021GH000457.	1.9	55
27	Outperforming yet undervalued: Undergraduate women in STEM. PLoS ONE, 2020, 15, e0234685.	1.1	54
28	Emissions of Trace Organic Gases From Western U.S. Wildfires Based on WEâ€CAN Aircraft Measurements. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033838.	1.2	54
29	HONO Emissions from Western U.S. Wildfires Provide Dominant Radical Source in Fresh Wildfire Smoke. Environmental Science & Technology, 2020, 54, 5954-5963.	4.6	51
30	Meteorological controls on observed peroxyacetyl nitrate at Mount Bachelor during the spring of 2008. Journal of Geophysical Research, 2010, 115, .	3.3	50
31	Changes in ozone and precursors during two aged wildfire smoke events in the Colorado Front Range in summer 2015. Atmospheric Chemistry and Physics, 2017, 17, 10691-10707.	1.9	49
32	Estimates of Cl atom concentrations and hydrocarbon kinetic reactivity in surface air at Appledore Island, Maine (USA), during International Consortium for Atmospheric Research on Transport and Transformation/Chemistry of Halogens at the Isles of Shoals. Journal of Geophysical Research, 2007, 112, .	3.3	43
33	Revisiting global fossil fuel and biofuel emissions of ethane. Journal of Geophysical Research D: Atmospheres, 2017, 122, 2493-2512.	1.2	43
34	Nitrogen oxides in the boundary layer and free troposphere at the Mt. Bachelor Observatory. Atmospheric Chemistry and Physics, 2010, 10, 6043-6062.	1.9	42
35	Emissions of Reactive Nitrogen From Western U.S. Wildfires During Summer 2018. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD032657.	1.2	41
36	Environmental Conditions, Ignition Type, and Air Quality Impacts of Wildfires in the Southeastern and Western United States. Earth's Future, 2018, 6, 1442-1456.	2.4	38

#	ARTICLE	IF	CITATIONS
37	Differential Cardiopulmonary Health Impacts of Local and Long-Range Transport of Wildfire Smoke. <i>GeoHealth</i> , 2021, 5, e2020GH000330.	1.9	38
38	Development and implementation of a new biomass burning emissions injection height scheme (BBEIH) Tj ETQq0 0,0,rgBT /Overlock 10	1.3	37
39	The association between wildfire smoke exposure and asthma-specific medical care utilization in Oregon during the 2013 wildfire season. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2020, 30, 618-628.	1.8	37
40	Daytime Oxidized Reactive Nitrogen Partitioning in Western U.S. Wildfire Smoke Plumes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033484.	1.2	36
41	Optical properties of aged Asian aerosols observed over the U.S. Pacific Northwest. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	34
42	The Associations Between Clinical Respiratory Outcomes and Ambient Wildfire Smoke Exposure Among Pediatric Asthma Patients at National Jewish Health, 2012â€“2015. <i>GeoHealth</i> , 2019, 3, 146-159.	1.9	31
43	Volatile organic compounds and ozone in Rocky Mountain National Park during FRAPPÃ%. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 499-521.	1.9	31
44	Past Variance and Future Projections of the Environmental Conditions Driving Western U.S. Summertime Wildfire Burn Area. <i>Earth's Future</i> , 2021, 9, e2020EF001645.	2.4	30
45	Nanoparticle growth following photochemical Î± - and Î² -pinene oxidation at Appledore Island during International Consortium for Research on Transport and Transformation/Chemistry of Halogens at the Isles of Shoals 2004. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	29
46	North American acetone sources determined from tall tower measurements and inverse modeling. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 3379-3392.	1.9	29
47	The relationship between monthly air pollution and violent crime across the United States. <i>Journal of Environmental Economics and Policy</i> , 2020, 9, 188-205.	1.5	28
48	Tall Tower Vertical Profiles and Diurnal Trends of Ammonia in the Colorado Front Range. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 12,468.	1.2	26
49	Summertime ozone at Mount Washington: Meteorological controls at the highest peak in the northeast. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	24
50	The 1935â€“2003 Air Temperature Record from the Summit of Mount Washington, New Hampshire. <i>Journal of Climate</i> , 2005, 18, 4445-4453.	1.2	24
51	Ozone export from East Asia: The role of PAN. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 6555-6563.	1.2	24
52	Observations of Ice Nucleating Particles in the Free Troposphere From Western US Wildfires. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033752.	1.2	24
53	Tropospheric sources and sinks of gas-phase acids in the Colorado Front Range. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12315-12327.	1.9	23
54	Evaluation of ambient ammonia measurements from a research aircraft using a closed-path QC-TILDAS operated with active continuous passivation. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 3717-3742.	1.2	22

#	ARTICLE	IF	CITATIONS
55	Associations Between Wildfire-Related PM _{2.5} and Intensive Care Unit Admissions in the United States, 2006-2015. <i>GeoHealth</i> , 2021, 5, e2021GH000385.	1.9	20
56	Optical and chemical properties of aerosols transported to Mount Bachelor during spring 2010. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	19
57	Satellite observations of peroxyacetyl nitrate from the Aura Tropospheric Emission Spectrometer. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 3737-3749.	1.2	18
58	Wildfire Smoke Is Associated With an Increased Risk of Cardiorespiratory Emergency Department Visits in Alaska. <i>GeoHealth</i> , 2021, 5, e2020GH000349.	1.9	18
59	Aerosol major ion record at Mount Washington. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	17
60	Aerosol-nutrient-induced picoplankton growth in Lake Tahoe. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 1054-1067.	1.3	17
61	PAN in the eastern Pacific free troposphere: A satellite view of the sources, seasonality, interannual variability, and timeline for trend detection. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 3614-3629.	1.2	17
62	Global Atmospheric Budget of Acetone: Air-Sea Exchange and the Contribution to Hydroxyl Radicals. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032553.	1.2	17
63	Inspiration, inoculation, and introductions are all critical to successful mentorship for undergraduate women pursuing geoscience careers. <i>Communications Earth & Environment</i> , 2020, 1, .	2.6	17
64	Observations and Modeling of NO _x Photochemistry and Fate in Fresh Wildfire Plumes. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 2652-2667.	1.2	17
65	A sensitivity analysis of key natural factors in the modeled global acetone budget. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 2043-2058.	1.2	17
66	Impact of Front Range sources on reactive nitrogen concentrations and deposition in Rocky Mountain National Park. <i>PeerJ</i> , 2018, 6, e4759.	0.9	17
67	TES observations of the interannual variability of PAN over Northern Eurasia and the relationship to springtime fires. <i>Geophysical Research Letters</i> , 2015, 42, 7230-7237.	1.5	15
68	Observations of Acyl Peroxy Nitrates During the Front Range Air Pollution and Photochemistry Experiment (FRAPP). <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 12,416.	1.2	14
69	Is pretenure interdisciplinary research a career risk?. <i>Eos</i> , 2012, 93, 311-312.	0.1	13
70	Acyl Peroxy Nitrates Link Oil and Natural Gas Emissions to High Ozone Abundances in the Colorado Front Range During Summer 2015. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 2336-2350.	1.2	13
71	Biomass Burning Smoke and Its Influence on Clouds Over the Western U. S.. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094224.	1.5	13
72	Atmospheric Implications of Large C ₂ -C ₅ Alkane Emissions From the U.S. Oil and Gas Industry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 1148-1169.	1.2	12

#	ARTICLE	IF	CITATIONS
73	Empirical Insights Into the Fate of Ammonia in Western U.S. Wildfire Smoke Plumes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033730.	1.2	12
74	Regional NO ₃ events in the northeastern United States related to seasonal climate anomalies. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	11
75	Atmospheric Photolysis of Methyl Ethyl, Diethyl, and Propyl Ethyl Ketones: Temperature-Dependent UV Absorption Cross Sections. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 5906-5918.	1.2	11
76	Could the exception become the rule? Uncontrollable air pollution events in the U.S. due to wildland fires. <i>Environmental Research Letters</i> , 0, , .	2.2	10
77	Spatial variability in tropospheric peroxyacetyl nitrate in the tropics from infrared satellite observations in 2005 and 2006. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 6341-6351.	1.9	9
78	Using TES retrievals to investigate PAN in North American biomass burning plumes. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 5639-5653.	1.9	9
79	Seasonality and Source Apportionment of Nonmethane Volatile Organic Compounds at Boulder Reservoir, Colorado, Between 2017 and 2019. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034234.	1.2	9
80	Exposure to Particulate Matter and Estimation of Volatile Organic Compounds across Wildland Firefighter Job Tasks. <i>Environmental Science & Technology</i> , 2021, 55, 11795-11804.	4.6	9
81	Evolution of Acyl Peroxynitrates (PANs) in Wildfire Smoke Plumes Detected by the Cross-Track Infrared Sounder (CrIS) Over the Western U.S. During Summer 2018. <i>Geophysical Research Letters</i> , 2021, 48, .	1.5	9
82	Estimating the Spread in Future Fine Dust Concentrations in the Southwest United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031735.	1.2	8
83	Evidence for an Oceanic Source of Methyl Ethyl Ketone to the Atmosphere. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086045.	1.5	8
84	A national burden assessment of estimated pediatric asthma emergency department visits that may be attributed to elevated ozone levels associated with the presence of smoke. <i>Environmental Monitoring and Assessment</i> , 2019, 191, 269.	1.3	7
85	First retrievals of peroxyacetyl nitrate (PAN) from ground-based FTIR solar spectra recorded at remote sites, comparison with model and satellite data. <i>Elementa</i> , 2021, 9, .	1.1	7
86	Weekend-Weekday Implications and the Impact of Wildfire Smoke on Ozone and Its Precursors at Boulder Reservoir, Colorado Between 2017 and 2019. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035221.	1.2	7
87	Seasonality, sources and sinks of C ₁ -C ₅ alkyl nitrates in the Colorado Front Range. <i>Elementa</i> , 2018, 6, .	1.1	7
88	Cows as canaries: The effects of ambient air pollution exposure on milk production and somatic cell count in dairy cows. <i>Environmental Research</i> , 2021, , 112197.	3.7	7
89	Spatially Resolved Photochemistry Impacts Emissions Estimates in Fresh Wildfire Plumes. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095443.	1.5	7
90	The CU Airborne Solar Occultation Flux Instrument: Performance Evaluation during BB-FLUX. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 582-596.	1.2	7

#	ARTICLE	IF	CITATIONS
91	Enhancements in Ammonia and Methane from Agricultural Sources in the Northeastern Colorado Front Range Using Observations from a Small Research Aircraft. Environmental Science & Technology, 2022, 56, 2236-2247.	4.6	7
92	Welcoming Women into the Geosciences. Eos, 2018, 99, .	0.1	5
93	Wildfire-driven changes in the abundance of gas-phase pollutants in the city of Boise, ID during summer 2018. Atmospheric Pollution Research, 2022, 13, 101269.	1.8	5
94	Seeking congruity for communal and agentic goals: a longitudinal examination of U.S. college women's persistence in STEM. Social Psychology of Education, 2022, 25, 649-674.	1.2	4
95	Peroxy acetyl nitrate (PAN) measurements at northern midlatitude mountain sites in April: a constraint on continental source-receptor relationships. Atmospheric Chemistry and Physics, 2018, 18, 15345-15361.	1.9	3
96	PM _{2.5} in Carlsbad Caverns National Park: Composition, sources, and visibility impacts. Journal of the Air and Waste Management Association, 2022, 72, 1201-1218.	0.9	3
97	Satellite measurements of peroxyacetyl nitrate from the Cross-Track Infrared Sounder: comparison with ATom aircraft measurements. Atmospheric Measurement Techniques, 2022, 15, 3497-3511.	1.2	3
98	Impacts of Emissions of C ₂ -C ₅ Alkanes From the U.S. Oil and Gas Sector on Ozone and Other Secondary Species. Journal of Geophysical Research D: Atmospheres, 2021, 126, .	1.2	1
99	Wildfire-related PM _{2.5} and Intensive Care Unit Admissions and Bed Utilization in the United States, 2006-2015. ISEE Conference Abstracts, 2021, 2021, .	0.0	1
100	Women in Geoscience: An interview with Emily Fischer. Cogent Geoscience, 2018, 4, 1432284.	0.6	0